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ABSTRACT OF THE DISCLOSURE

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Accurately recognizing from eye-gaze patterns when a user is reading, skimming, or scanning on a display filled with heterogeneous content, and then supplying information tailored to meet individual needs. Heterogeneous content includes objects normally encountered on computer monitors, such as text, images, hyperlinks, windows, icons, and menus. Three distinct mechanisms are used: (1) coarse or quantized representation of eye-movements, (2) accumulation of pooled numerical evidence based detection, and (3) mode switching. Analysis of text the user is reading or skimming may infer user interest and adapt to the user's needs.